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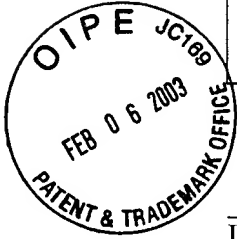
Dated: 2/3/03

Signature: *Anna P. Lucey*

(Anna P. Lucey)

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Docket No.: G02/P02-0003



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Beach et al.

Application No.: 09/866557

Group Art Unit: 1637

Filed: May 24, 2001

Examiner: J. Riley

For: METHODS AND COMPOSITIONS FOR
RNA INTERFERENCE

INFORMATION DISCLOSURE STATEMENT (IDS)

Commissioner for Patents
Washington, DC 20231

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned.

A copy of each reference on PTO/SB/08 is attached.

While the information and references disclosed in this Information Disclosure Statement may be "material" pursuant to 37 CFR 1.56, it is not intended to constitute an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents should one or more of the documents be applied against the claims of the present application.

Dated:

Respectfully submitted,

By

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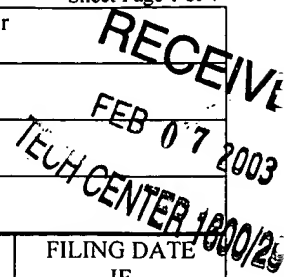
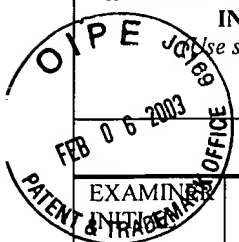
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Attorneys for Applicant

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**INFORMATION DISCLOSURE CITATION
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Docket Number (Optional)
GNCA-P02-007Application Number
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Beach et al.Filing Date
May 24, 2001Group Art Unit
1637
U.S. PATENT DOCUMENTS

EXAMINER UNIT & TRADEMARK OFFICE	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA 6,326,193	12/4/01	Liu et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
	AB WO 01/36646	5/25/01	PCT				
	AC WO 01/48183	7/5/01	PCT				
	AD WO 01/75164	10/11/01	PCT				
	AE WO 02/44321	6/6/02	PCT				
	AF WO 02/059300	8/1/02	PCT				
	AG WO 02/068635	9/6/02	PCT				

OTHER DOCUMENTS

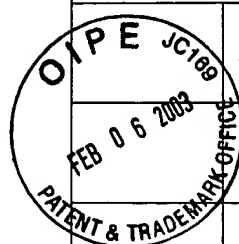
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AI	Baulcombe, D.C. RNA as a target and an initiator of post-transcriptional gene silencing in transgenic plants. <i>Plant Mol. Biol.</i> 32, 79-88 (1996).
AJ	Baulcombe, D.C. Gene silencing: RNA makes RNA makes no protein. <i>Curr. Biol.</i> 9, R599-R601 (1999).
AK	Bohmert, K. et al. AGO1 defines a novel locus of Arabidopsis controlling leaf development. <i>EMBO J.</i> 17, 170-180 (1998).
AL	Bosher, J.M. et al. RNA Interference Can Target Pre-mRNA: Consequences for Gene Expression in a Caenorhabditis elegans Operon. <i>Genetics</i> 153, 1245-1256 (Nov. 1999).
AM	Bosher, J.M. & Labouesse, M. RNA interference: genetic wand and genetic watchdog. <i>Nat. Cell Biol.</i> 2, E31-36 (2000).
AN	Catalanotto, C. et al. Gene silencing in worms and fungi. <i>Nature</i> 404, 245 (2000).
AO	Cogoni, C. & Macino, G. Gene silencing in Neurospora crassa requires a protein homologous to RNA-dependent RNA polymerase. <i>Nature</i> 399, 166-169 (1999).
AP	Cogoni, C. & Macino, G. Posttranscriptional Gene Silencing in Neurospora by a RecQ DNA Helicase. <i>Science</i> 286, 2342-2344 (1999).

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AR	Dalmay, T. et al. An RNA-Dependent RNA Polymerase Gene in Arabidopsis is Required for Posttranscriptional Gene Silencing Mediated by a Transgene but Not by a Virus. <i>Cell</i> 101, 543-553 (2000).
AS	Di Nocera, P.P. & Dawid, I.B. Transient expression of genes introduced into cultured cells of Drosophila. <i>PNAS</i> 80, 7095-7098 (1983).
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AU	Fire, A. RNA-triggered gene silencing. <i>Trends Genet.</i> 15, 358-363 (1999).
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AW	Fortier, E. & Belote, J.M. Temperature-Dependent Gene Silencing by an Expressed Inverted Repeat in Drosophila. <i>Genesis</i> 26, 240-244 (2000).
AX	Gillespie, D.E. & Berg, C.A. homeless is required for RNA localization in Drosophila oogenesis and encodes a new member of the DE-H family of RNA-dependent ATPases. <i>Genes Dev.</i> 9, 2495-2508 (1995).
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AZ	Hamilton, J.A. & Baulcombe, D.C. A Species of Small Antisense RNA in Posttranscriptional Gene Silencing in Plants. <i>Science</i> 286, 950-952 (1999).
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BB	Hunter, C. Genetics: A touch of elegance with RNAi. <i>Curr. Biol.</i> 9, R440-R442 (1999).
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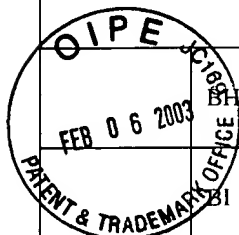
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BJ	Kramer, E.R. et al. Activation of the human anaphase-promoting complex by proteins of the CDC20/Fizzy family. <i>Curr. Biol.</i> 8, 1207-1210 (1998).
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BL	Lohmann, J.U. et al. Silencing of Developmental Genes in Hydra. <i>Dev. Biol.</i> 214, 211-214 (1999).
BM	Matsuda, S. et al. Molecular cloning and characterization of a novel human gene (HERNA) which encodes a putative RNA-helicase. <i>Biochim. Biophys. Acta</i> 1490, 163-169 (2000).
BN	Misquitta, L. & Paterson, B.M. Targeted disruption of gene function in Drosophila by RNA interference (RNA-i): A role for nautilus in embryonic somatic muscle formation. <i>PNAS</i> 96, 1451-1456 (Feb. 1999).
BO	Montgomery, M.K. et al. RNA as a target of double-stranded RNA-mediated genetic interference in <i>Caenorhabditis elegans</i> . <i>PNAS</i> 95, 15502-15507 (Dec. 1998).
BP	Montgomery, M.K. & Fire, A. Double-stranded RNA as a mediator in sequence-specific genetic silencing and co-suppression. <i>Trends Genet.</i> 14, 255-258 (1998).
BQ	Mourrain, P. et al. Arabidopsis SGS2 and SGS3 Genes are Required for Posttranscriptional Gene Silencing and Natural Virus Resistance. <i>Cell</i> 101, 533-542 (2000).
BR	Ngo, H. et al. Double-stranded RNA induces mRNA degradation in <i>Trypanosoma brucei</i> . <i>PNAS</i> 95, 14687-14692 (Dec. 1998).
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BU	Schneider, I. Cell lines derived from late embryonic stages of <i>Drosophila melanogaster</i> . <i>J. Embryol. Exp. Morphol.</i> 27, 353-365 (1972).
BV	Sharp, P.A. RNAi and double-strand RNA. <i>Genes Dev.</i> 13, 139-141 (1999).
BW	Shi, H. et al. Genetic interference in <i>Trypanosoma brucei</i> by heritable and inducible double-stranded RNA. <i>RNA</i> 6, 1069-1076 (2000).
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		Applicant Beach et al.	
		Filing Date May 24, 2001	Group Art Unit 1637
	BY	Sijen, T. & Kooter, J.M. Post-transcriptional gene-silencing: RNAs on the attack or on the defense? <i>Bioessays</i> 22, 520-531 (2000).	
	BZ	Smardon, A. et al. EGO-1 is related to RNA-directed RNA polymerase and functions in germ-line development and RNA interference in <i>C. elegans</i> . <i>Curr. Biol.</i> 10, 169-178 (2000).	
	CA	Smith, N.A. et al. Total silencing by intron-spliced hairpin RNAs. <i>Nature</i> 407, 319-320 (2000).	
	CB	Tabara, H. et al. RNAi in <i>C. elegans</i> : Soaking in the Genome Sequence. <i>Science</i> 282, 430-432 (1998).	
	CC	Tabara, H. et al. The rde-1 Gene, RNA Interference, and Transposon Silencing in <i>C. elegans</i> . <i>Cell</i> 99, 123-132 (1999).	
	CD	Tavernarakis, N. et al. Heritable and inducible genetic interference by double-stranded RNA encoded by transgenes. <i>Nat. Genet.</i> 24, 180-183 (2000).	
	CE	Timmons, L. & Fire, A. Specific interference by ingested dsRNA. <i>Nature</i> 395, 854 (1998).	
	CF	Tuschl, T. et al. Targeted mRNA degradation by double-stranded RNA in vitro. <i>Genes Dev.</i> 13, 3191-3197 (1999).	
	CG	Vaucheret, H. et al. Transgene-induced gene silencing in plants. <i>Plant J.</i> 16, 651-659 (1998).	
	CH	Wassenegger, M. & Pelissier, T. A model for RNA-mediated gene silencing in higher plants. <i>Plant Mol. Biol.</i> 37, 349-362 (1998).	
	CI	Waterhouse, P.M. et al. Virus resistance and gene silencing in plants can be induced by simultaneous expression of sense and antisense RNA. <i>PNAS</i> 95, 13959-13964 (Nov. 1998).	
	CJ	Wianny, F. & Zernicka-Goetz, M. Specific interference with gene function by double-stranded RNA in early mouse development. <i>Nature Cell Biol.</i> 2, 70-75 (2000).	
	CK	Wolf, D.A. & Jackson, P.K. Cell cycle: Oiling the gears of anaphase. <i>Curr. Biol.</i> 8, R636-R639 (1998).	
CL	Zamore, P.D. et al. RNAi: Double-Stranded RNA Directs the ATP-Dependent Cleavage of mRNA at 21 to 23 Nucleotide Intervals. <i>Cell</i> 101, 25-33 (2000).		
EXAMINER		DATE CONSIDERED	
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